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1. 001:

Release Date: 04-10-2013Open Date: 07-02-2013Due Date: 08-02-2013Close Date: 08-02-2013

Purpose The purpose of NCCAM's Small Business Technology Transfer (STTR) Grant program is to stimulate technological innovation in the private sector, strengthen the role of small business in meeting Federal research or research and development needs, and improve the return on investment from Federally-funded research for economic and social benefits to the Nation. Natural products offer ...

STTR Department of Health and Human Services

2. AF11-BT04: 3-D nondestructive imaging techniques for mesoscale damage analysis of composite materials

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date: 09-28-2011

TECHNOLOGY AREAS: Materials/Processes, Weapons OBJECTIVE: Develop techniques for detecting and modeling the evolution of damage in composite materials such as plastic bonded explosives or concretes using nondestructive means. DESCRIPTION: In hard target penetration, the onboard energetic material may be subjected to severe environments of both pressure and shear loading. Dama ...

STTR Department of Defense

3. ST13A-004: A Flexible and Extensible Solution to Incorporating New RF Devices and Capabilities into EW/ ISR Networks

Release Date: 01-25-2013Open Date: 02-25-2013Due Date: 03-27-2013Close Date: 03-27-2013

OBJECTIVE: Develop a representation with formal semantics for the static and dynamic characteristics of Radio Frequency (RF) devices. DESCRIPTION: In military applications, RF devices constitute a heterogeneous network of receivers/transmitters deployed primarily for the purpose of communicating tactical information. However, current RF devices are highly versatile and have the potential of fulfilling various functions in support of various tasks such as Situational Awareness, Electronic Warfare/Intelligence, Surveillance and Reconnaissance (EW/ISR).

STTR Defense Advanced Research Projects Agency

4. A11a-T015: A Priori Error-Controlled Simulations of Electromagnetic Phenomena for HPC

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: The objectives of this STTR are to investigate numerical methods for predictably-accurate treatment of boundary conditions in electromagnetic and other wave-dominated phenomena, and to develop algorithms and computer software that can be implemented for military and commercial simulation applications. DESCRIPTION: High fidelity modeling of electromagnetic phenomena has become incre ...

STTR Army

## 5. T6.02: Active Debris Removal Technologies

Release Date: 07-18-2011Open Date: 07-18-2011Due Date: 09-08-2011Close Date: 09-08-2011

After more than 50 years of human space activities, orbital debris has become a problem in the near-Earth environment. The total mass of debris in orbit is close to 6000 tons at present. The U.S. Space Surveillance Network is currently tracking more than 22,000 objects larger than about 10 cm. Additional optical and radar data indicate that there are approximately 500,000 debris larger than 1 cm, and more than 100 million debris larger than 1 mm in the environment.

STTR National Aeronautics and Space Administration

## 6. AF12-BT14: Adaptive multi-sensor wide area situational awareness system

Release Date: 07-26-2012Open Date: 08-27-2012Due Date: 09-26-2012Close Date: 09-26-2012

OBJECTIVE: Develop machine learning technology that can significantly improve warfighter wide area situational awareness based on multiple sensors. DESCRIPTION: Layered sensing enables situational awareness (SA) about an area of interest (AOI) by providing multiple high-resolution views of the area. SA in a wide area of operations is particularly challenging as the sensor resources have to b ...

STTR Air Force

## 7. 14.11: Additional Information

Release Date: 01-31-2012Open Date: 03-05-2012Due Date: 01-08-2013Close Date: 01-08-2013

The NEI's programs are described in more extensive detail in documents which are available from the Institute. For additional information about the research programs of the NEI, please visit our home page at http://www.nei.nih.gov. For more information on research topics, contact: Jerome Wujek, Ph.D. Research Resources Officer Division of Extramural Research National Eye Institute ...

STTR Department of Health and Human Services

## 8. 16.7: Additional Programs and Services for NHLBI SBIR Awardees

Release Date: 01-31-2012Open Date: 03-05-2012Due Date: 01-08-2013Close Date: 01-08-2013

The NHLBI encourages all Phase II applicants to apply to the NIH Commercialization Assistance Program to gain assistance in transferring their products to the marketplace. For additional information on research areas, please contact: Cardiovascular Sciences Albert Lee, Ph.D. Division of Cardiovascular Sciences Advanced Technologies and Surgery Branch 6701 Rockledge Drive, Room 8204 B ...

STTR Department of Health and Human Services

## 9. T12.03: Additive Manufacturing of metal Plus Insulator Structures with sub-mm Features

Release Date: 11-14-2013Open Date: 11-14-2013Due Date: 01-29-2014Close Date: 01-29-2014

Lead Center:GSFCNASA is interested in investigating additive manufactured structures combining metals and insulators demonstrating multiple layers of 10-500 um lines and spaces, 200 um thick insulator layers, and 200 um diameter blind vias on 400 um centers capable of withstanding ~800 V between layers. Expected Deliverables: Fabrication of a small area, few cm2, micro-well detector with 200 um ...

STTR National Aeronautics and Space Administration

## 10. A13A-T010: Additive Manufacturing of Multifunctional Nanocomposites

Release Date: 01-25-2013Open Date: 02-25-2013Due Date: 03-27-2013Close Date: 03-27-2013

OBJECTIVE: Investigate the feasibility of additive manufacturing techniques, also known as 3-D printing, to produce multifunctional materials to facilitate the development of multiscale hierarchical energy dissipation at the nano- and microscale level enabled by creating microstructures that eliminate traditional inverse material property relationships. There is a vital need for the development o ...

STTR Army

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